

Date: May 3, 2011

To: Thomas J. Bonfield, City Manager

Through: Theodore L. Voorhees, Deputy City Manager

From: Donald F. Greeley, Director, Water Management
James E. Harding, Civil Engineer IV, Water Management

Subject: Contract SR-55 Sanitary Sewer System Repairs, 2011

Executive Summary:

Repairing known defects within the City's sanitary sewer collection system is integral to maintaining compliance with the City's Sewer Collection Permit. On April 14, 2011 bids were opened for Contract SR-55, Sanitary Sewer System Repairs, 2011. This project involves the repair and replacement of sanitary sewer mains and manholes throughout the City service area. Work completed during this "find it and fix it" project will be identified through maintenance and sanitary sewer system evaluation documents. Four bids were received and deemed responsive. The Department recommends Centurion Construction Co., Inc. of Raleigh, NC be awarded the contract in the amount of \$1,896,416.13.

Recommendations:

The Department of Water Management recommends that the City Council:

1. Authorize the City Manager to execute a contract with Centurion Construction Co., Inc. for construction services for the SR-55, Sanitary Sewer System Repairs, 2011 Project in the amount of \$1,896,416.13; and
2. Establish a contingency fund for the contract in the amount not to exceed \$188,583.87; and
3. Authorize the City Manager to negotiate change orders for the contract provided that the cost of all change orders does not exceed 188,583.87, and the total project cost of \$2,085,000.00.

Background:

There are over 1200 miles of sanitary sewer pipeline and over 30,000 sanitary sewer manholes that make up the City's sanitary sewer collection system. The City's Sewer Collection Permit requires the City to repair any known defects in our system. The deterioration and catastrophic failure of sanitary sewers and manholes can be attributed to one or more factors. Influencing factors can range from poor initial installation, groundwater inflow and infiltration to root intrusion, new construction, and

age. Manholes are subject to the same deterioration factors that affect sewer pipe lines. Additional factors affecting the structural integrity of manholes, ultimately causing failure, include hydrogen sulfide gas buildup, surcharging, and ground settlement.

Through the use of annual inspections, maintenance records and previously contracted sanitary sewer evaluations, the System Rehabilitation Program identifies sewer pipelines that require partial or full length pipeline replacement and manholes that require height adjustments or complete replacement due to deterioration or failure.

Issues and Analysis:

Below is a summary of the bids received on April 14, 2011. All bids were analyzed and deemed responsive.

Contractor	Bid
Centurion Construction Co., Inc	\$ 1,896,416.13
J. F. Wilkerson	\$ 2,161,976.18
Moffat Pipe	\$ 2,384,722.66
Triangle Grading and Paving Constr.	\$ 3,731,400.00

The Department of Water Management recommends awarding Contract SR-55 to Centurion Construction Co., Inc. the lowest responsive bidder, in the amount not to exceed \$2,085,000.00.

Alternatives:

Many sewer pipelines and manholes have been identified as being in poor condition and need of rehabilitation. The alternatives identified are 1) to repair pipelines utilizing only city crews; or 2) to not move forward with the project.

Alternative #1 would delay the completion of pipeline repair of deteriorated sewers. Selecting to not perform the work as stated in Alternative #2 will lead to structural failure of the sewer outfalls possibly causing sanitary sewer overflows (SSOs) and environmental damage. Alternative #2 would put the City in violation of its sewer collection permit and potentially the City could receive Notices of Violation (NOVs) and potential fines by the State.

Financial Impacts:

Funds for this project were approved in the Capital Improvements Program Sewer Collection System Rehabilitation.

There are currently funds available for this project from 4100P007-731000-P2875 (\$743,427.00), 4100P007-731900-P2875 (\$188,583.87) and 4100P765-731000-P2875 (\$1,152,989.13).

SDBE SUMMARY:

The Equal Opportunity/Equity Assurance Department reviewed the bid submitted by Centurion Construction Co., Inc. Raleigh, North Carolina to determine compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. The goals for this project are MSDBE 11% and WSDBE 6%. It was determined that Centurion Construction Co. Inc. was in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting.

SDBE REQUIREMENTS

Centurion Construction Co., Inc. will subcontract to the following certified firms:

Firm	ID	City/State	Amount	% of Contract
Busy Black Trucking, LLC	MSDBE	Durham, NC	\$201,500	11%
ADIA of NC, LLC	MSDBE	Durham, NC	\$9,050	1%
Calamar, Inc.	WSDBE	Durham, NC	\$114,000	6%
Carolina Environmental Contracting, Inc.	WSDBE	Mt. Airy, NC	\$625	.03%

The MSDBE and WSDBE goals were both met.

WORKFORCE STATISTICS

The workforce statistics for Centurion Construction Company, Inc. are as follows:

Total Workforce	69	
Total Females	8	12%
Total Males	61	88%
Black Males	2	3%
White Males	35	51%
Other Males	24	34%
Black Females	0	0%
White Females	8	12%
Other Females	0	0%